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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/452,809	12/02/1999	HAE CHANG YANG	0465-0636P-S	1780
75	590 02/i1/2002	·		
BIRCH STEWART KOLASCH & BIRCH LLP P O BOX 747 FALLS CHURCH, VA 220400747			EXAMINER	
			FARAHANI, DANA	
			ART UNIT	PAPER NUMBER
			2814	
•			DATE MAILED: 02/11/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
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Office Action Summary	09/452,809	YANG, HAE CHANG					
Cincernation Cammany	Examiner Dana Farahani	Art Unit					
Th MAILING DATE of this communication app		with the correspondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on 02 L	December 1999						
	is action is non-final.						
3) Since this application is in condition for allowed	·—						
Disposition of Claims							
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5</u> is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
. If approved, corrected drawings are required in reply to this Office action. 12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)☐ Some * c)☐ None of:							
1. ☐ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> 	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)					

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: on page 3, line 5, the expression "Fig. 2" should be "Fig. 3".

Appropriate correction is required.

Claim Objections

- 2. Claim 1 is objected to because of the following informalities: the word "maim" on line 3 should be "main". Appropriate correction is required.
- 3. Claim 3 is objected to because of the following informalities: number "2" should be "3". Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Jeong (U.S. 5,821,587).

Regarding claim 1, Jeong discloses, figure 1, an ESD protection circuit comprising: a pad 100 and a main chip Q3; and a plurality of transistors Q1, Q2, and

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Q4, each connected between the pad and the main chip and having a resistor Rs connected only to an input terminal.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Regarding claims 2 and 3, Jeong discloses in figure 6, an ESD protection circuit comprising a substrate 31; a transistor with source/drain 35 on the substrate; a first insulating film 37 formed on the substrate inclusive of the transistor and having a first contact hole 37a to an input terminal of the transistor; a second insulating film 41 formed on the first insulating film and having a second contact hole 41a; and a pad 43 formed on the second insulating film inclusive of the second contact hole. Jeong dose not disclose in this embodiment a buffered layer on the first insulating film. Jeong discloses in figure 1, a resistor or buffered layer Rs connected to an input pad.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use a buffered layer beneath the input pad 43 on the first insulating film in order to make a resistor in contact with the input pad;

Regarding claim 4, the buffered layer 35 is polysilicon (see column 4, lines 10-15).

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Regarding claim 5,Jeong discloses the claimed invention except for using silicide in the buffered layer. It would have been obvious matter of design choice to use silicide, since applicant has not disclosed that using silicide solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with polysilicon.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (703)305-1914. The examiner can normally be reached on M-F 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703)306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-7722 for regular communications and (703)308-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

Dana Farahani February 5, 2002

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OLIK CHAUDHURI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800